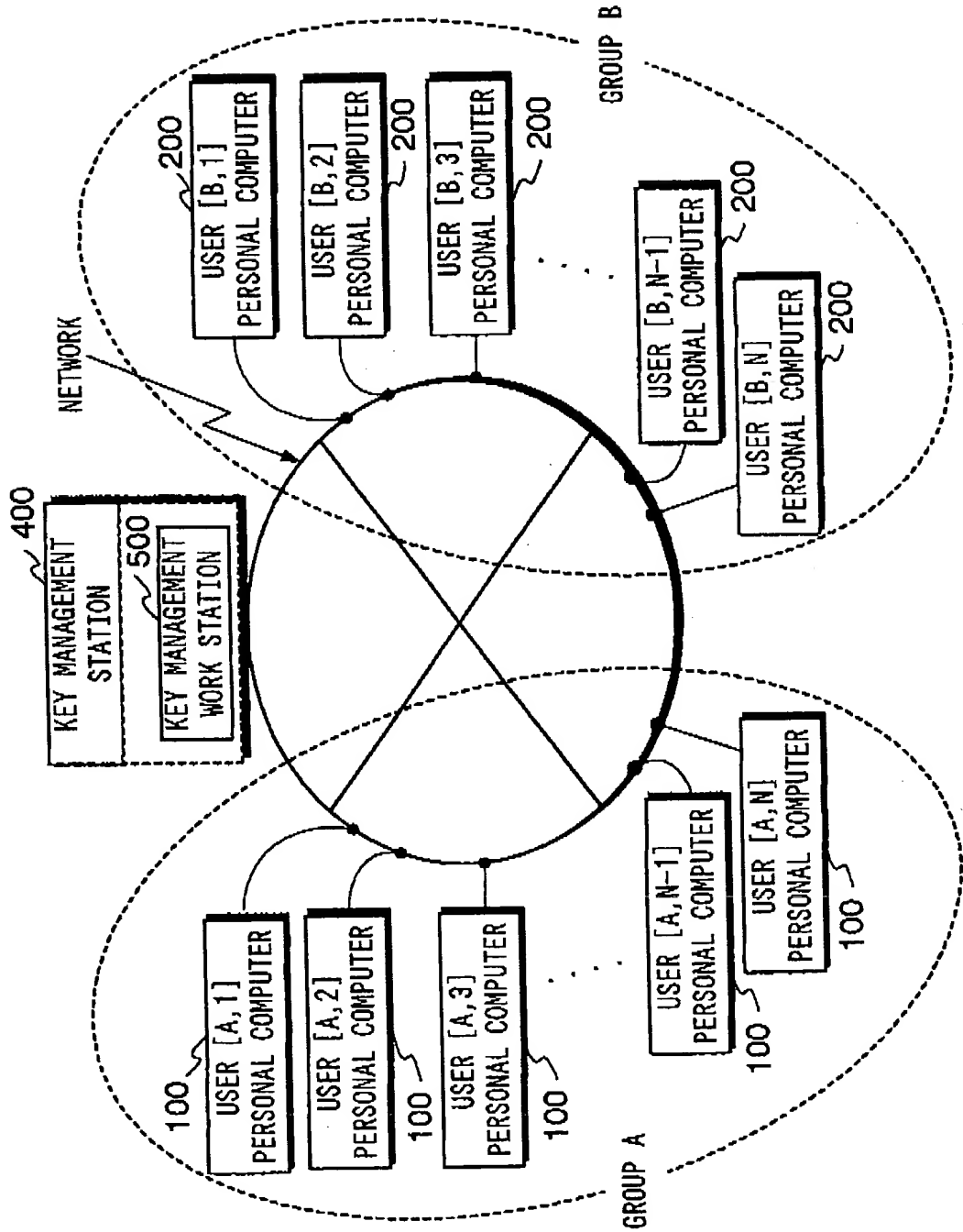


FIG. 1

(NETWORK COMMUNICATION SYSTEM)



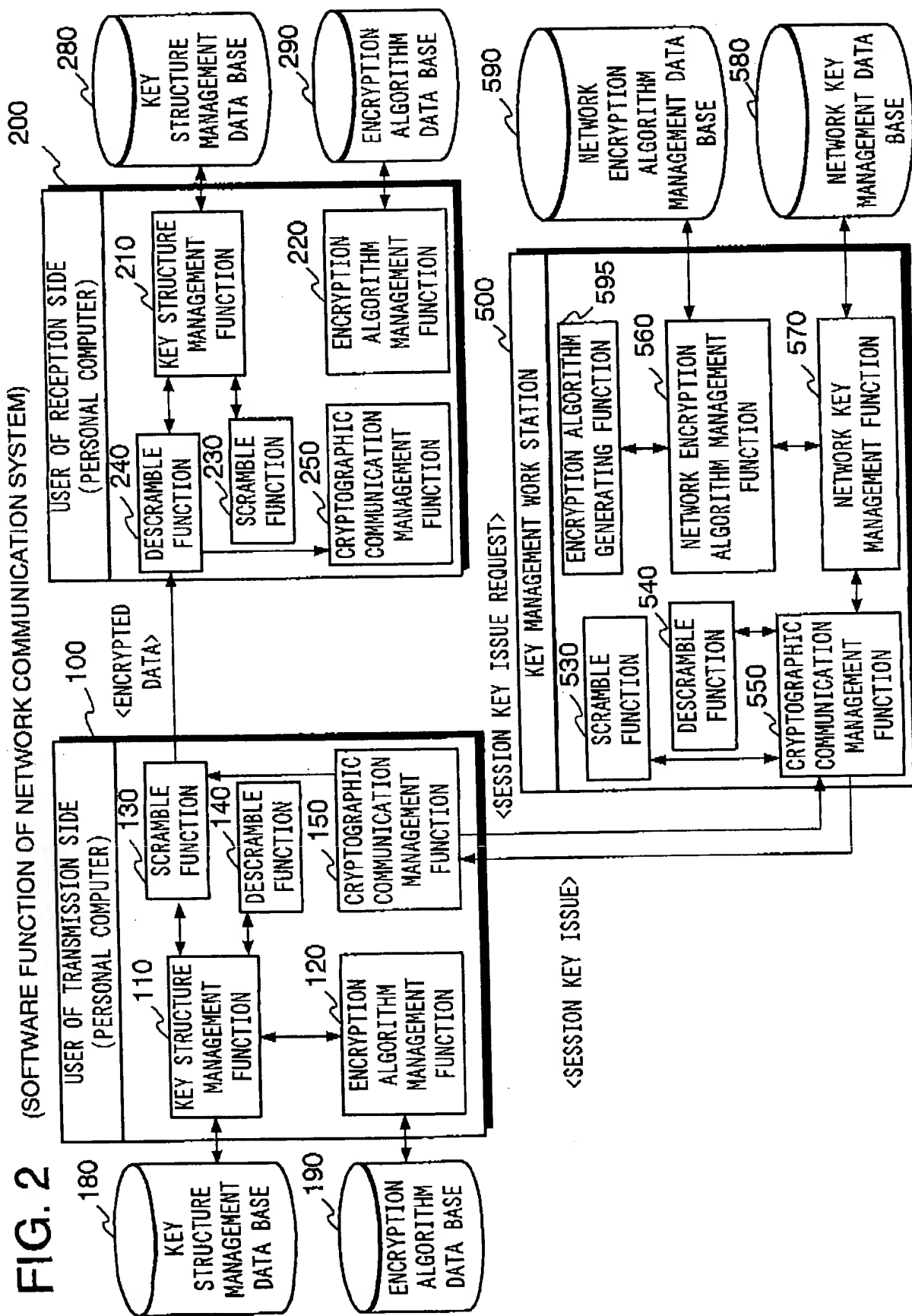


FIG. 3A

NETWORK ENCRYPTION ALGORITHM MANAGEMENT DATA BASE

| USER ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | UPDATING DATE |
|------------------------------|---------------------------|------------------------------|---------------|
| KEY MANAGEMENT STATION ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | UPDATING DATE |

FIG. 3B

NETWORK KEY MANAGEMENT DATA BASE

| USER ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | KEY INFORMATION | UPDATING DATE |
|------------------------------|---------------------------|------------------------------|-----------------|---------------|
| KEY MANAGEMENT STATION ID | ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | KEY INFORMATION | UPDATING DATE |

FIG. 4A

ENCRYPTION ALGORITHM MANAGEMENT DATA BASE

| ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | UPDATING DATE |
|---------------------------|------------------------------|---------------|
|---------------------------|------------------------------|---------------|

FIG. 4B

KEY STRUCTURE MANAGEMENT DATA BASE

| ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | USER KEY INFORMATION | UPDATING DATE |
|---------------------------|------------------------------|---|---------------|
| ENCRYPTION ALGORITHM NAME | ENCRYPTION ALGORITHM VERSION | KEY INFORMATION OF KEY MANAGEMENT STATION | UPDATING DATE |

FIG. 5
(OUTLINE OF ENCRYPTION ALGORITHM CONVERSION)

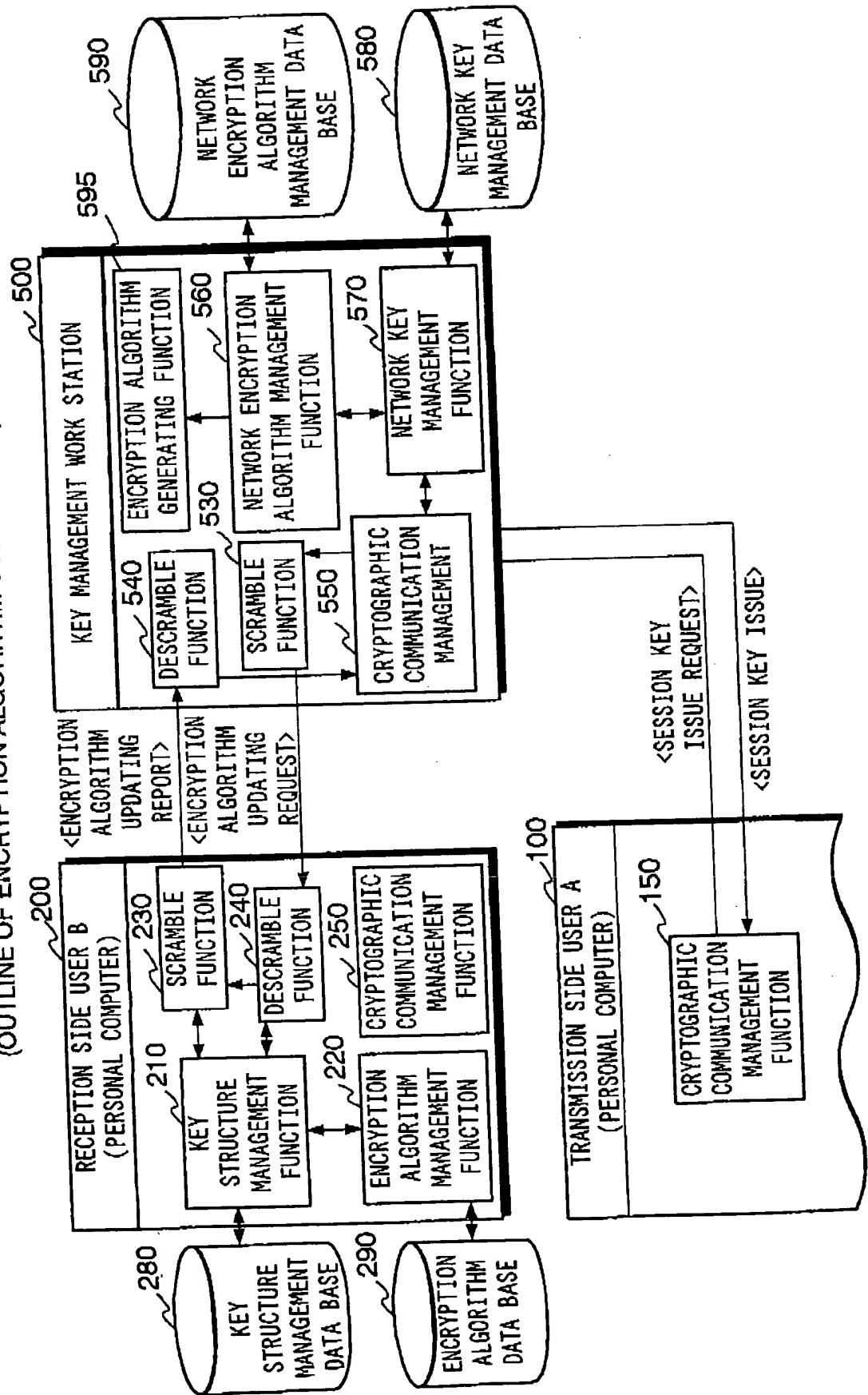


FIG. 7

(CRYPTOGRAPHIC COMMUNICATION BY COMMON KEY CIPHER)

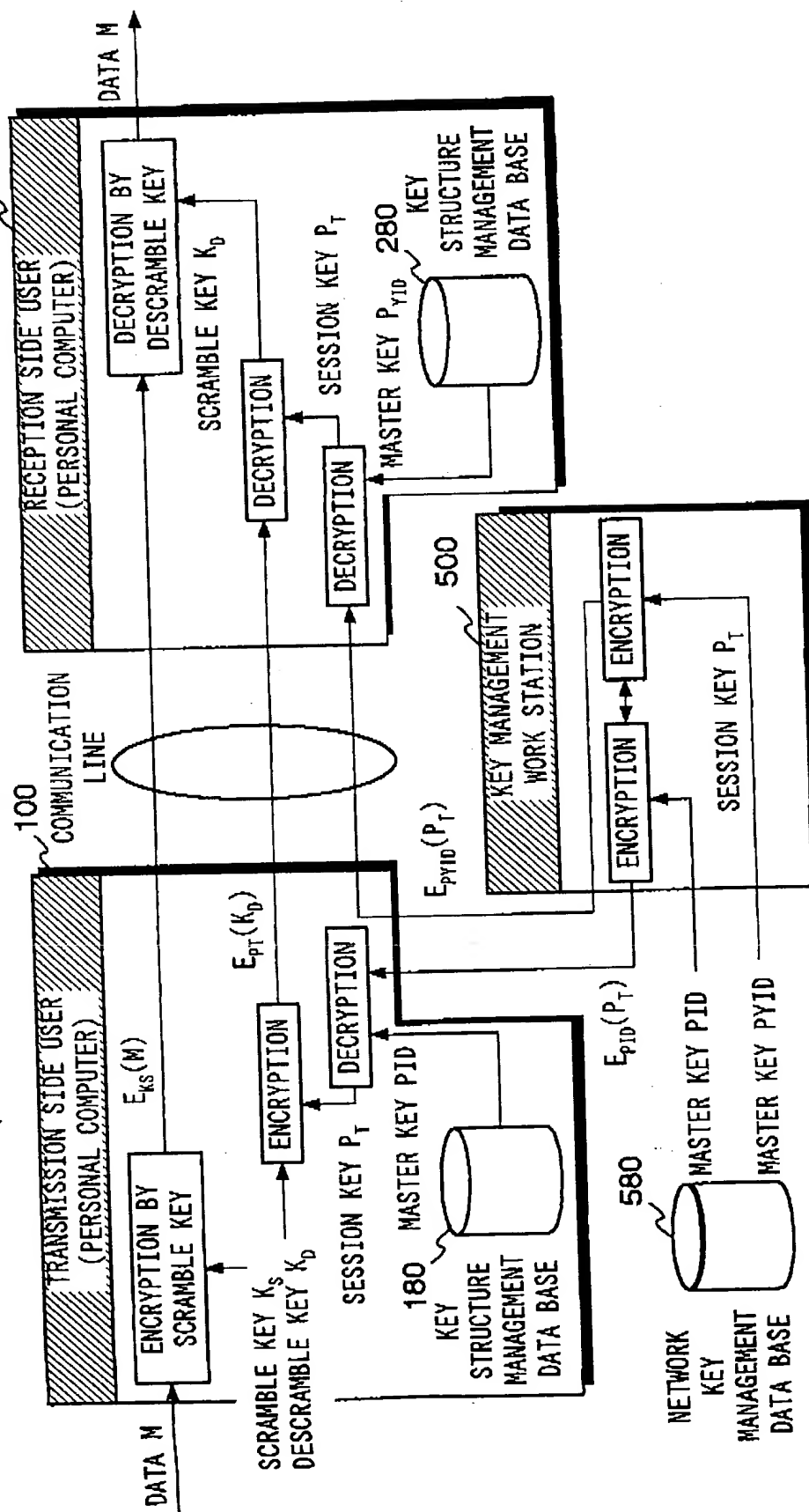


FIG. 8

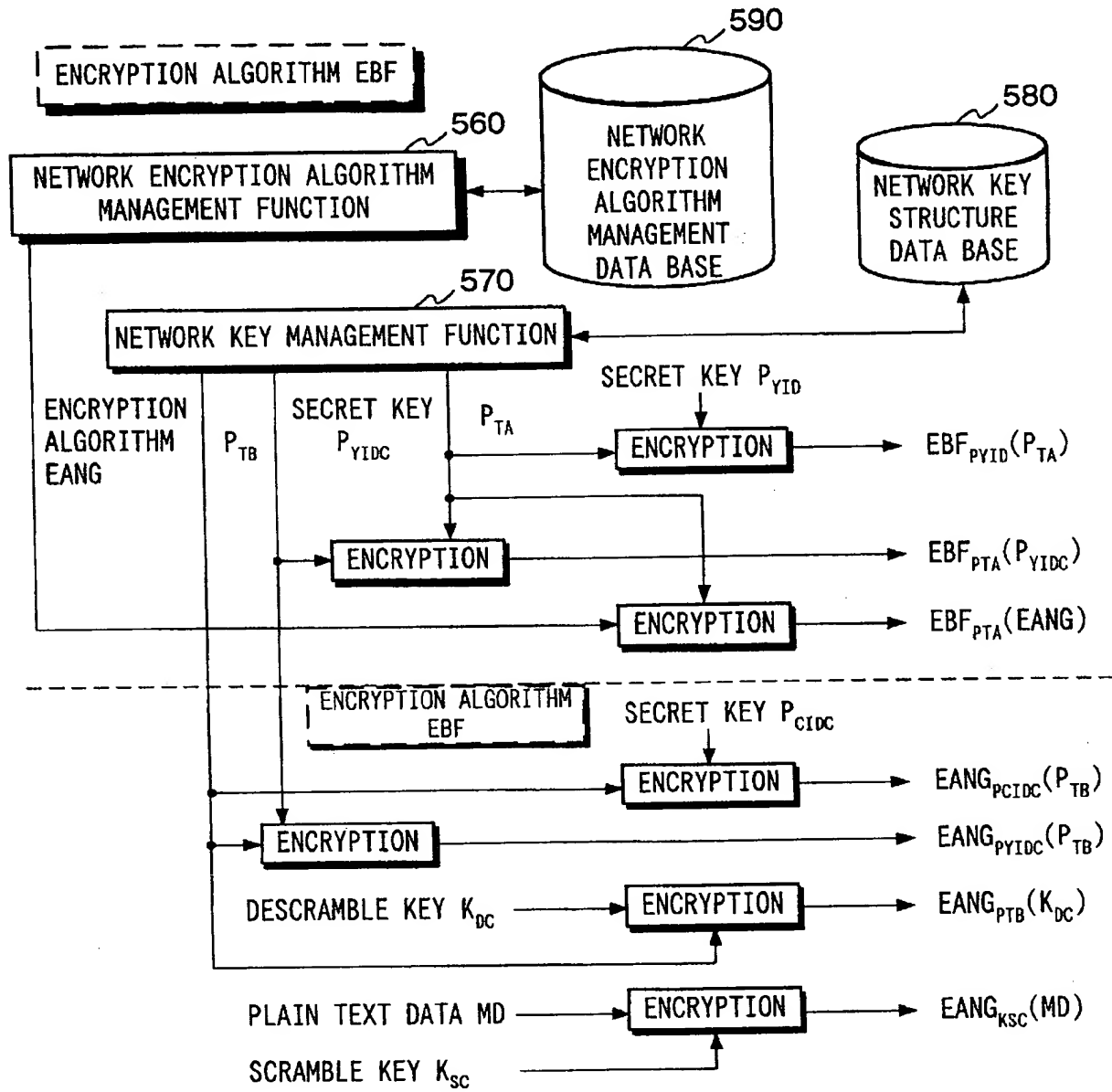
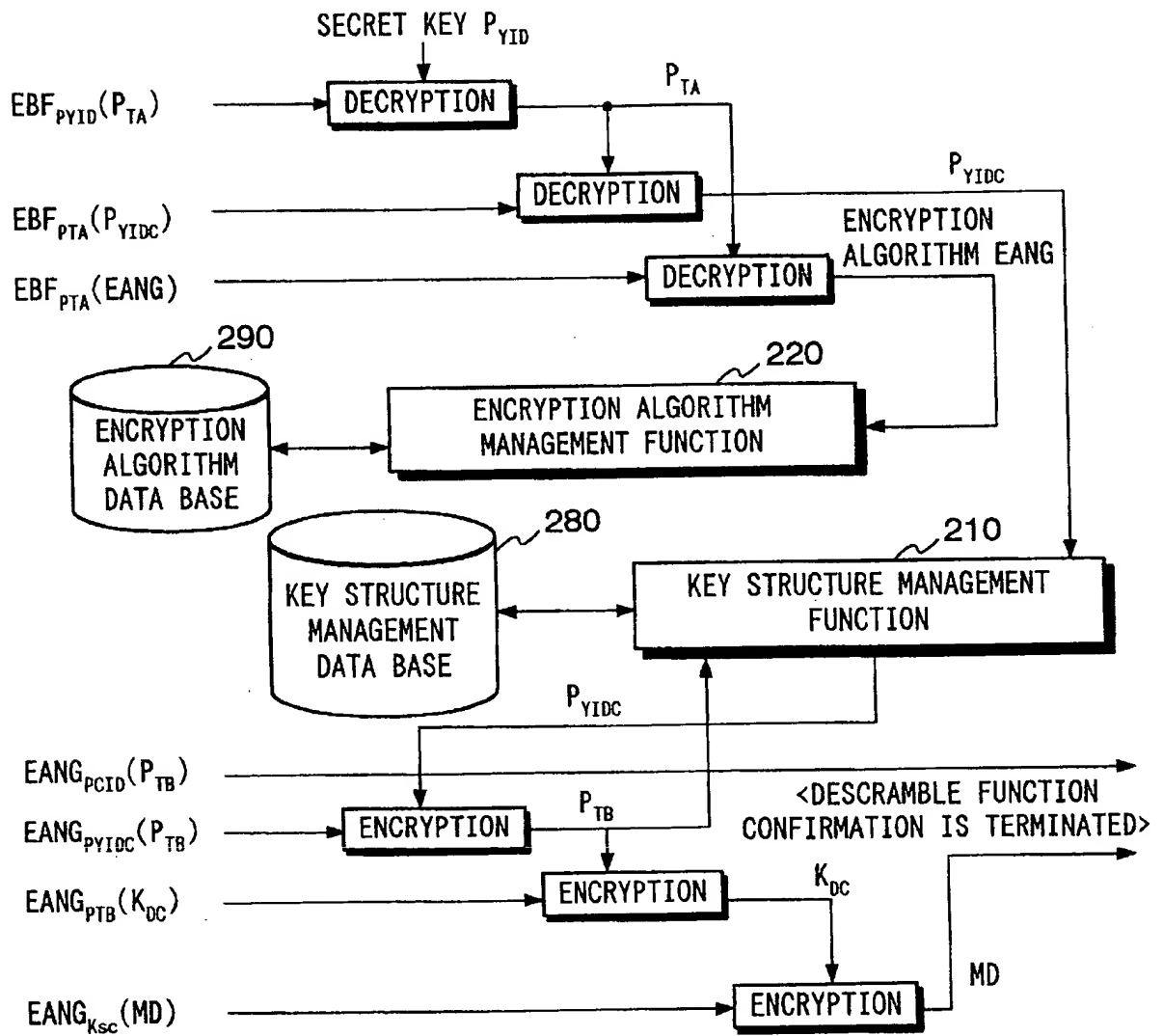
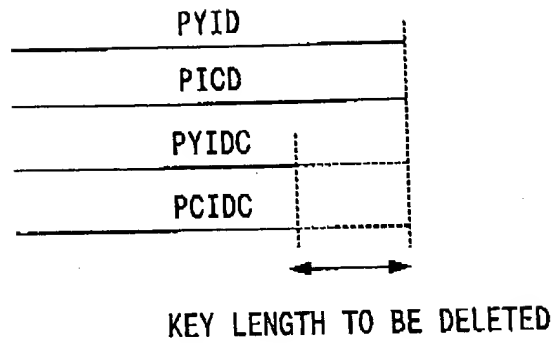


FIG. 9



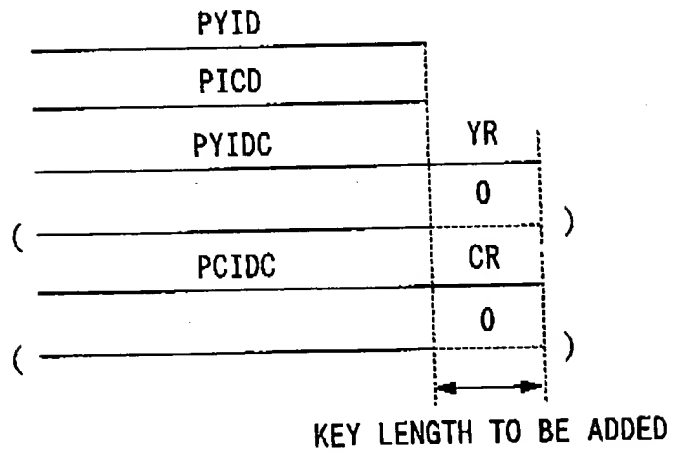
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FIG. 10A



CASE WHERE THE KEY LENGTH IS SHORTENED

FIG. 10B



CASE WHERE THE KEY LENGTH IS PROLONGED

FIG. 11

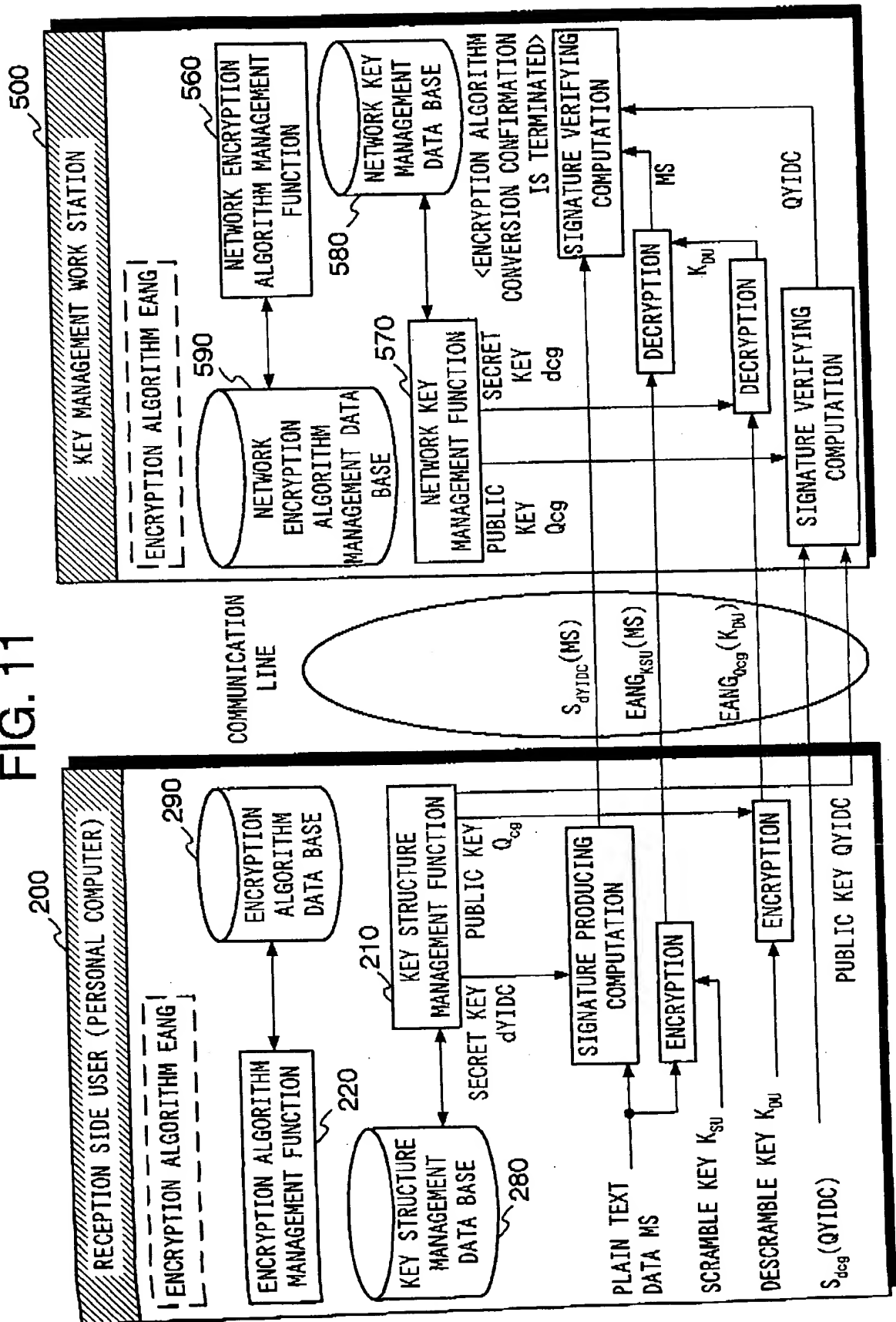


FIG. 12
(CRYPTOGRAPHIC COMMUNICATION BY PUBLIC KEY CIPHER)

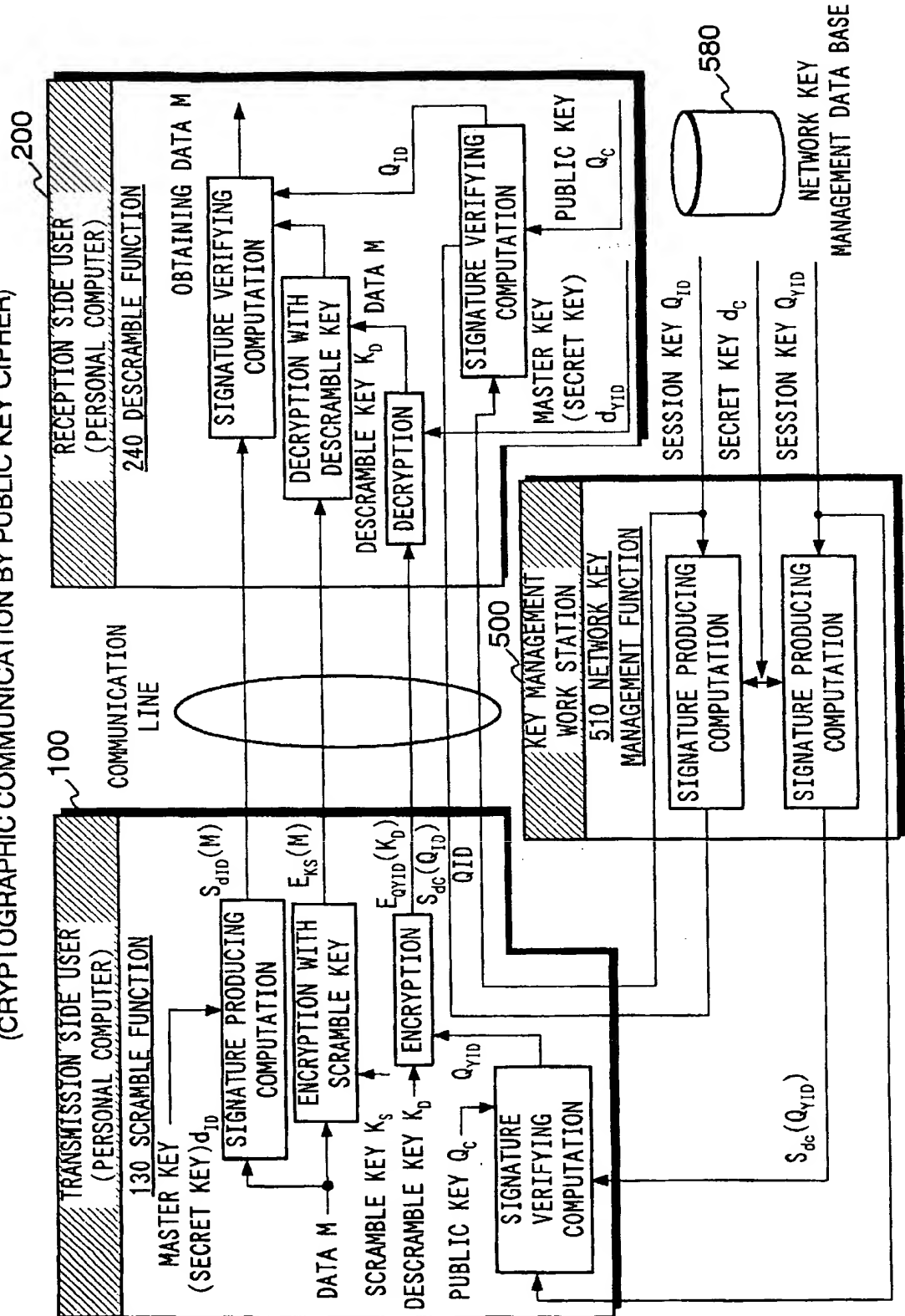


FIG. 13

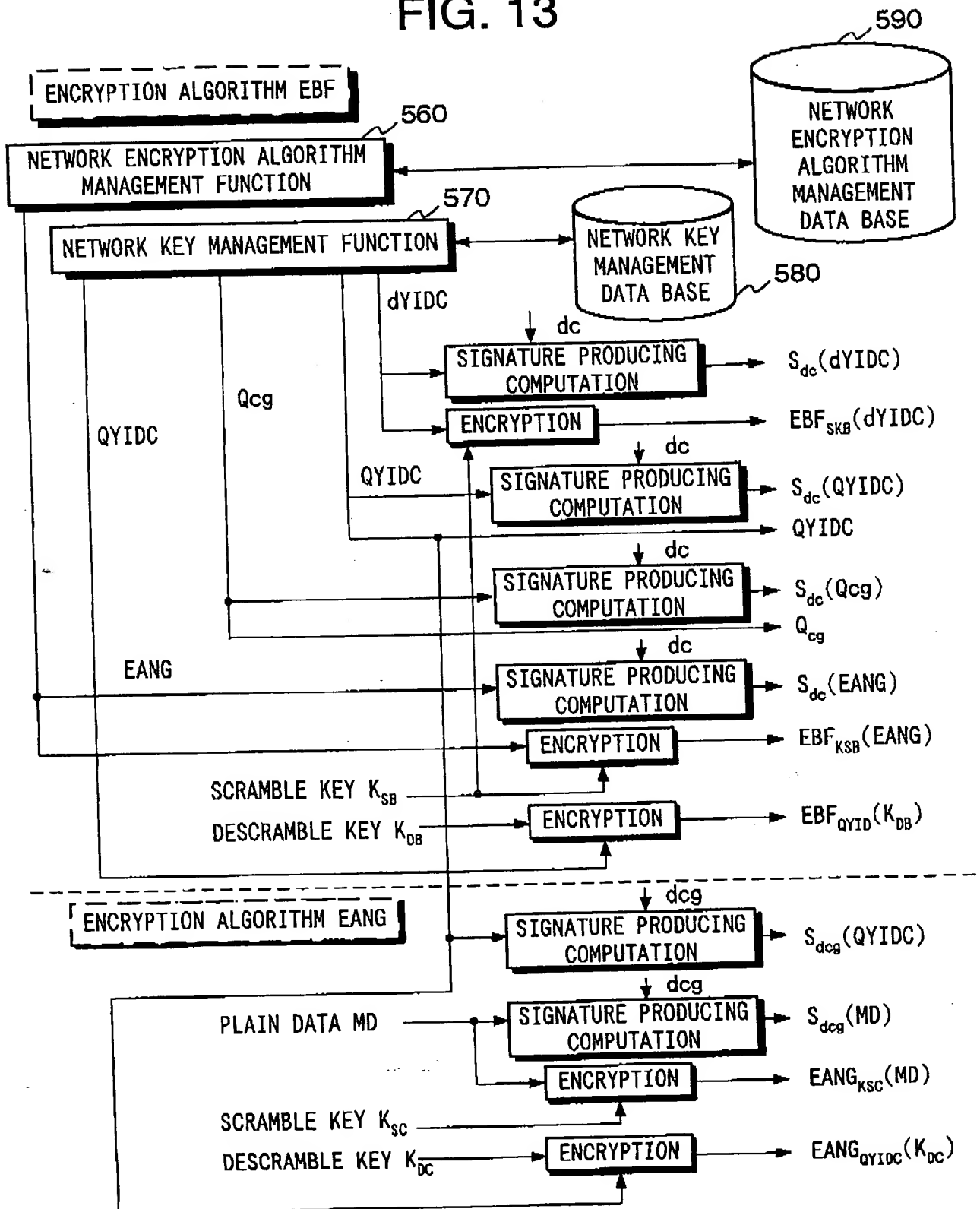
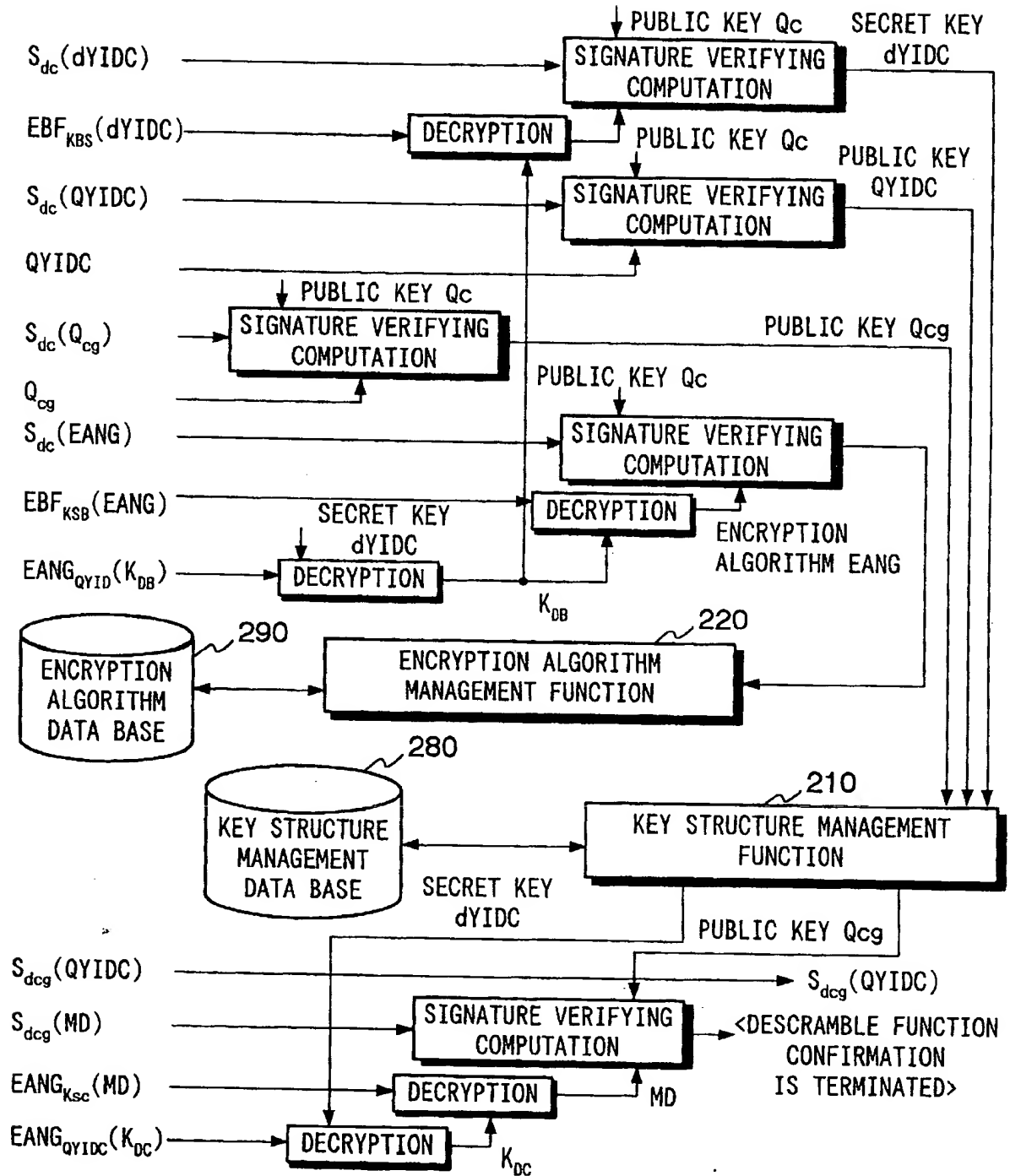


FIG. 14



SECRET

FIG. 15

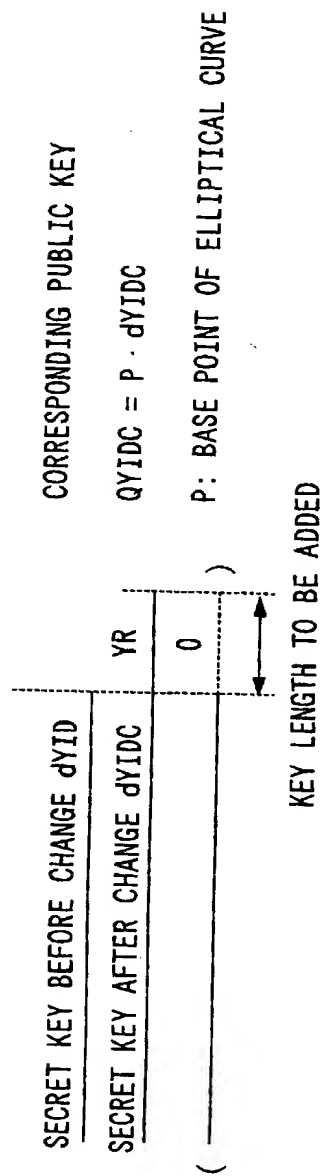
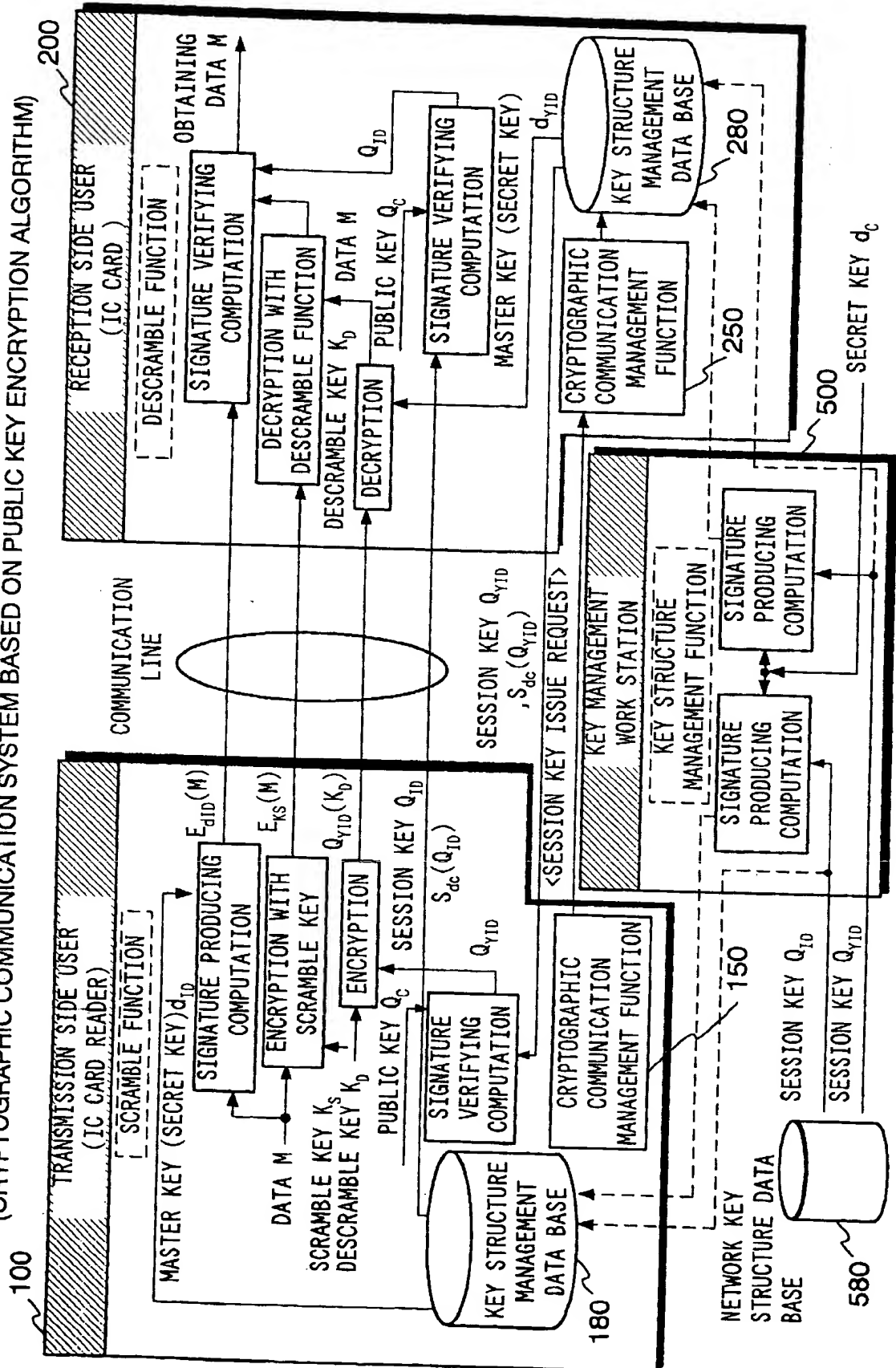


FIG. 16

(CRYPTOGRAPHIC COMMUNICATION SYSTEM BASED ON PUBLIC KEY ENCRYPTION ALGORITHM)



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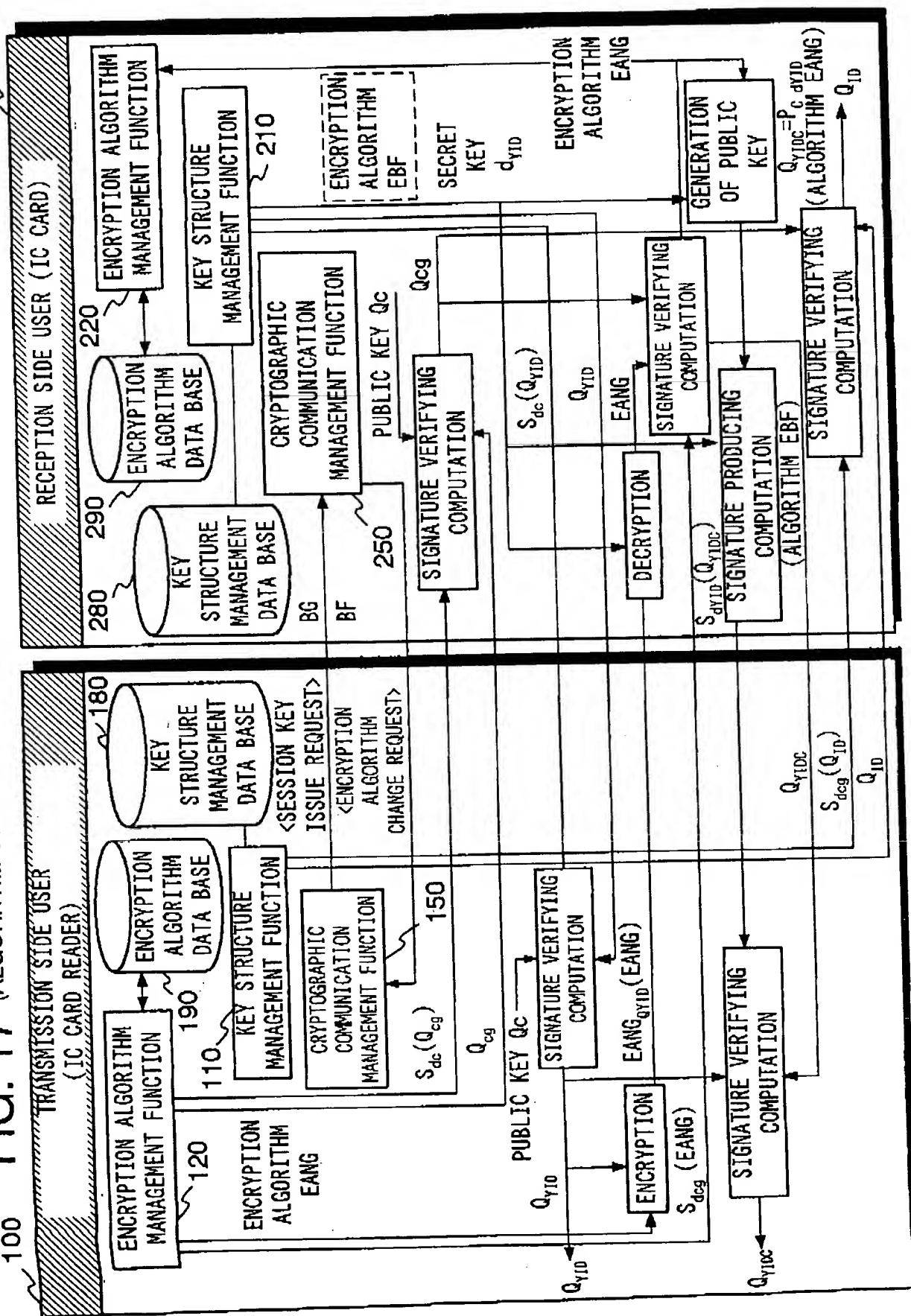
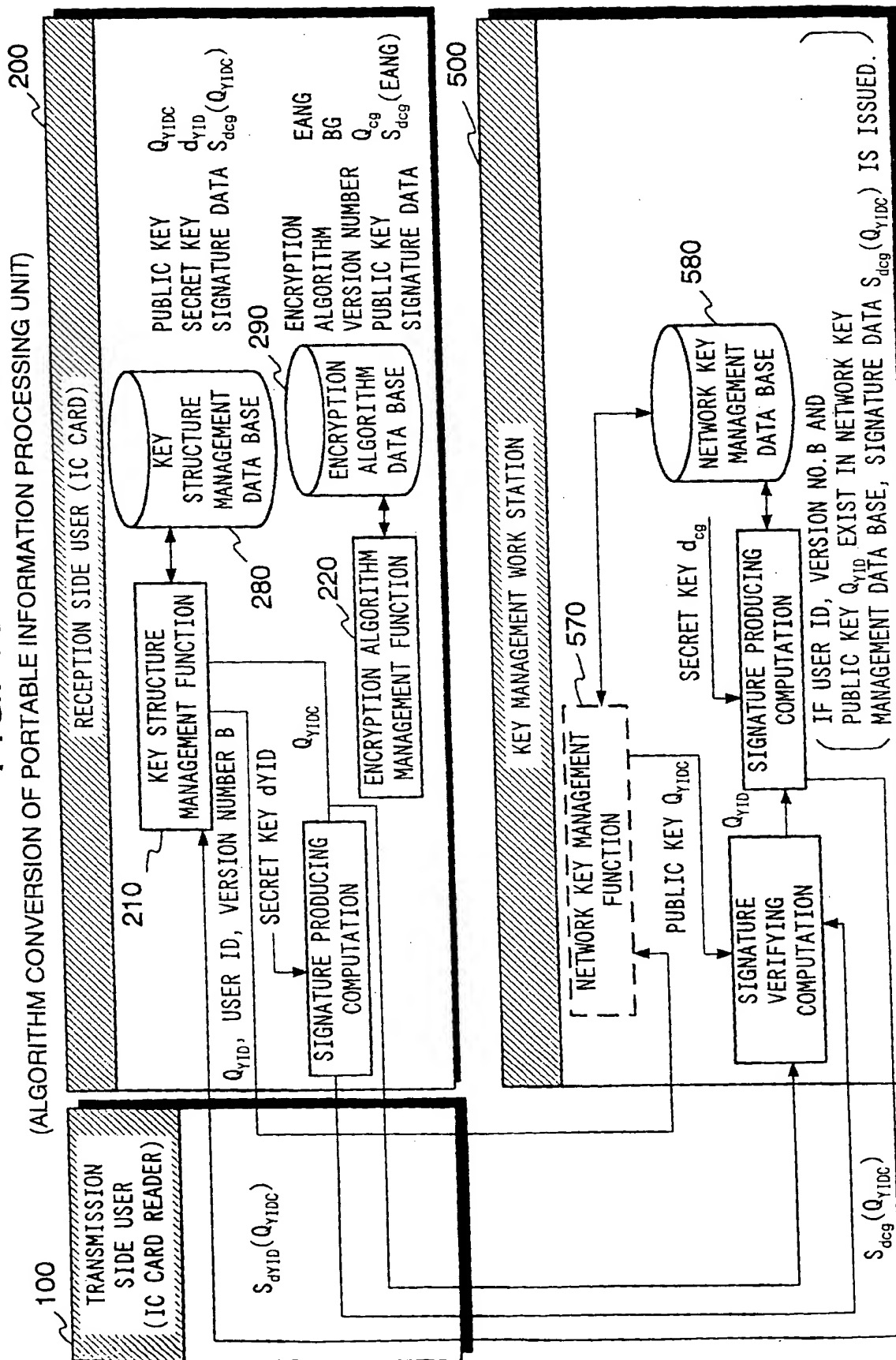


FIG. 18



(DATA BASE OF KEY AND ENCRYPTION ALGORITHM)

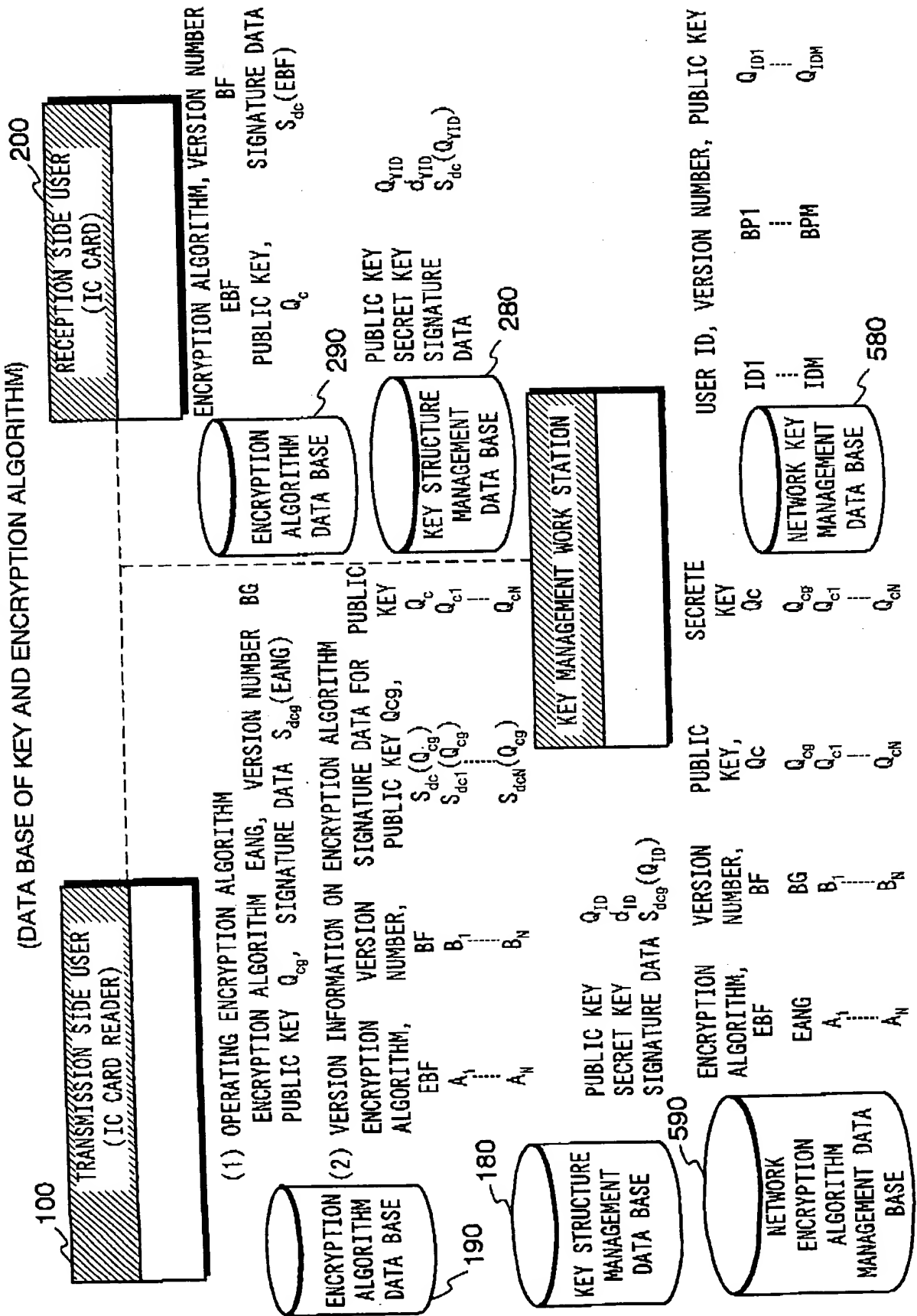


FIG. 20

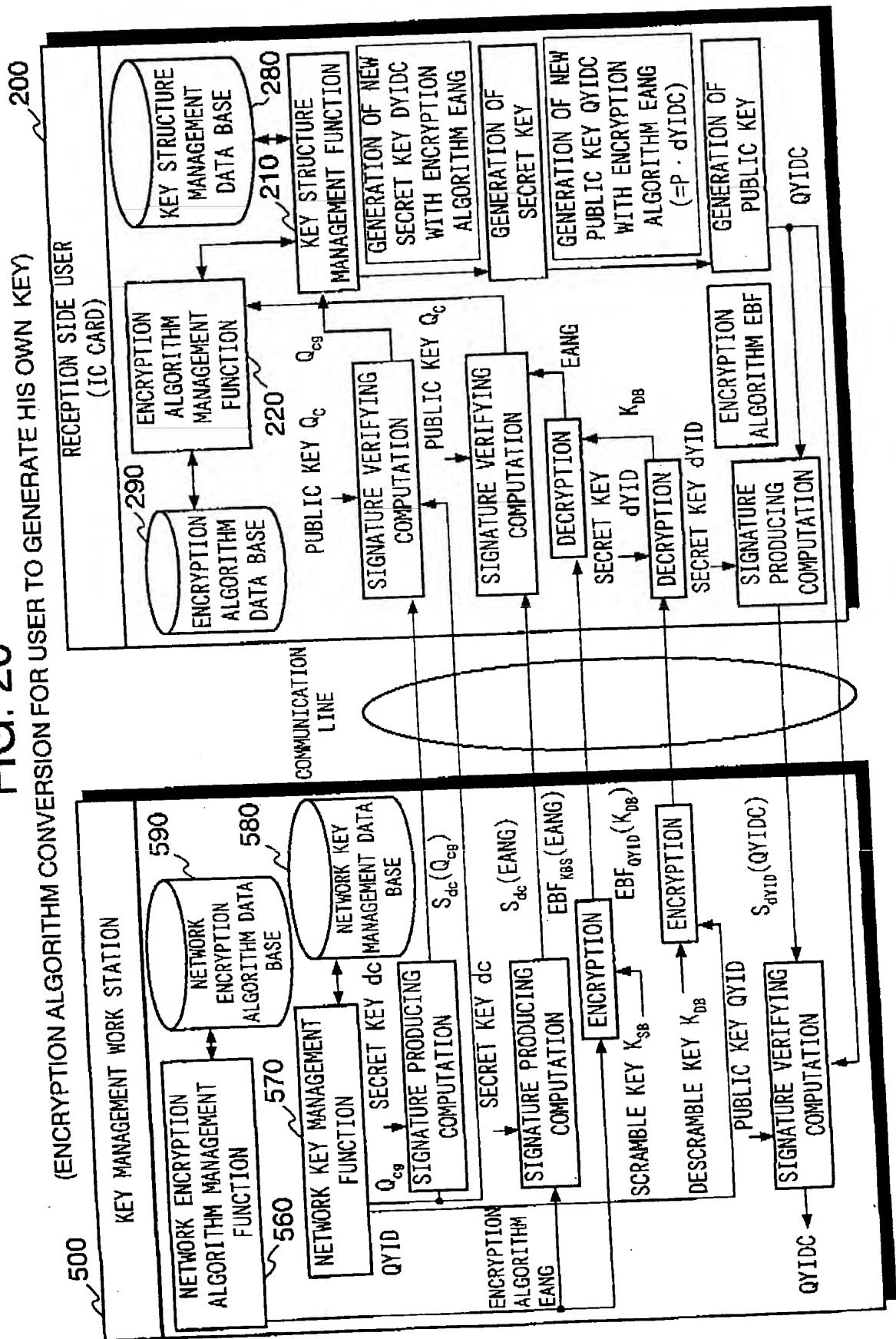


FIG. 21
(CRYPTOGRAPHIC COMMUNICATION SYSTEM WITH PUBLIC KEY ENCRYPTION ALGORITHM)

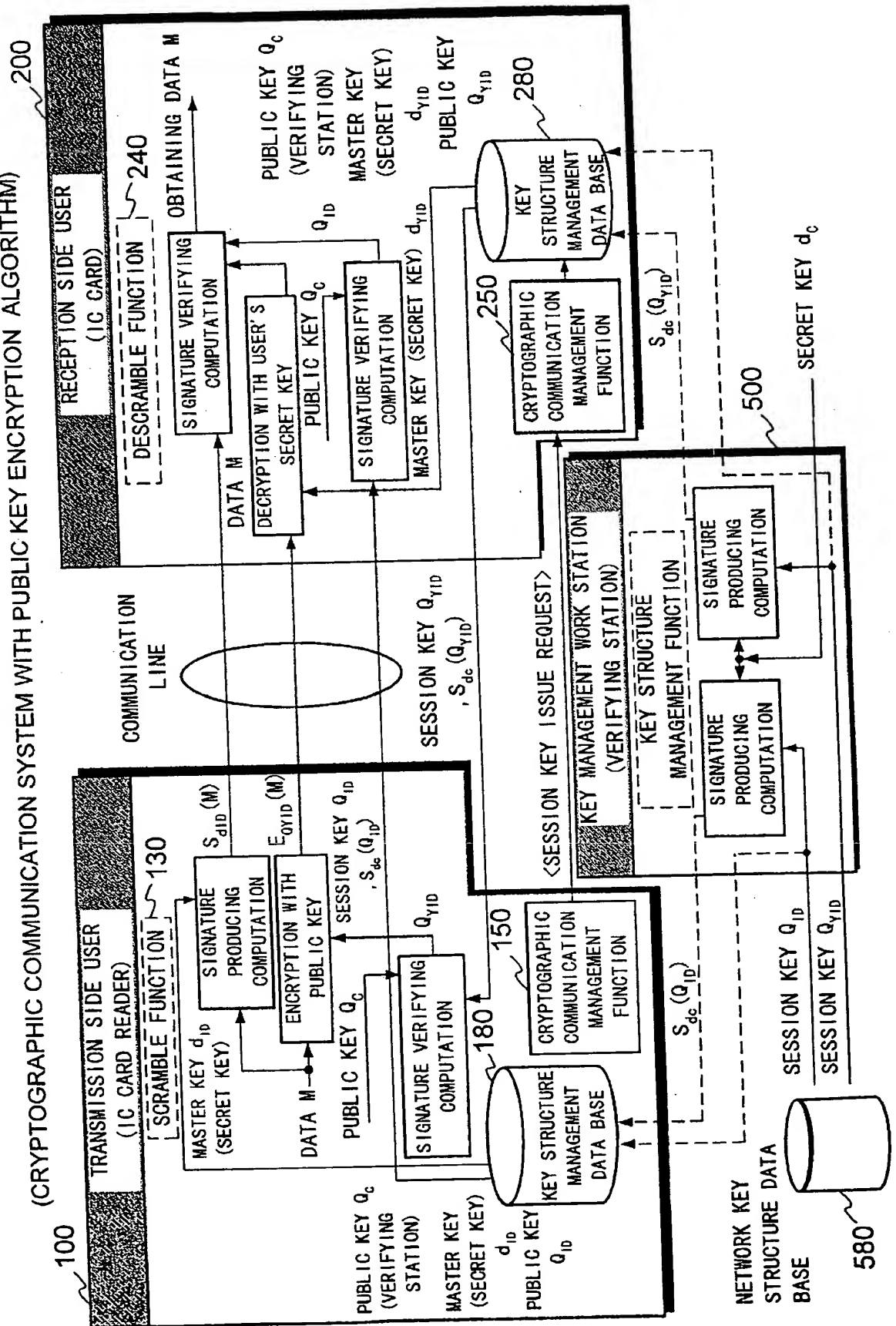


FIG. 22
(NETWORK COMMUNICATION SYSTEM
IN WHICH A PLURALITY OF ENCRYPTION ALGORITHMS EXIST)

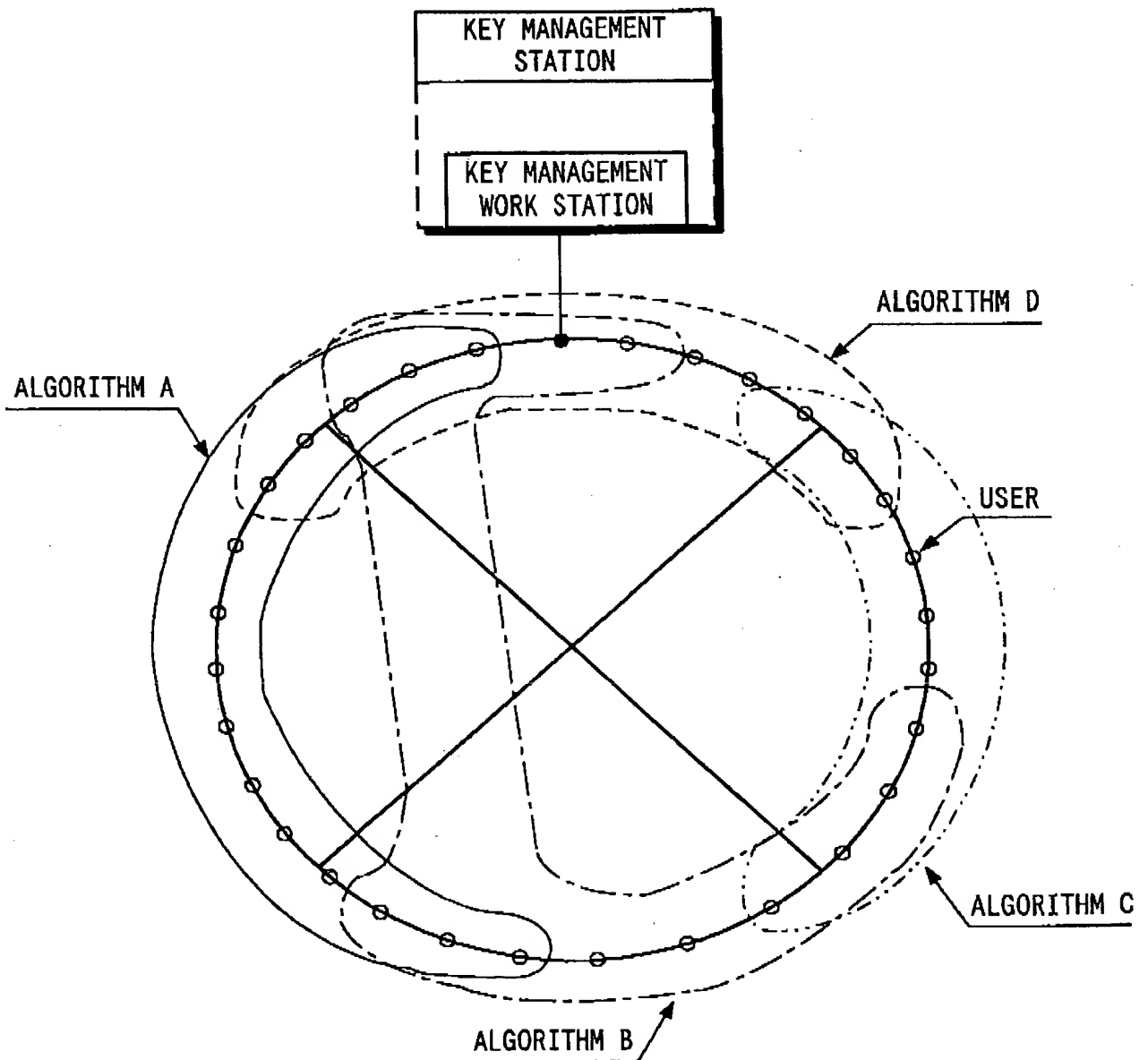


FIG. 24

(KEY RECOVERY FUNCTION (DECRYPTION))

